				<u> </u>		ATTY. DOCKET NO.	APPLICA	ATION NO.	Ħ	
						16515.054 (52015/01/US)	09/688,06	59	EST.	뀨
		FORM P	TO-1449	6	=	APPLICANTS	<u> </u>		2	
INFO	RMATIO	N DISCI	LOSURE	STATEMENT	· · · · · · · · · · · · · · · · · · ·	Sai S. SUBRAMANIAM et al.				
					out w	FILING DATE	GROUP	11-0	33 6	5 <u>111</u>
•				SEP	1 2000 景	October 14, 2000	1653	1638	8 2	≥ <u>≤</u>
	è			DATE	i de la composition della comp	PATENT DOCUMENTS			/ 26	3 11
EXAMINER INITIAL	<u> </u>	DOCU	JMENT RER	DATE	NAME		CLASS	SUB- CLASS	S ILIN	G DATE
NIIIAE	AA1	5,545,		08/13/96	Ausich et a	ıl.				
π¥	ABI	5,876,	964	03/02/99	Croteau et	al.				
		-			FOREIG	N PATENT DOCUMENTS		<u> </u>		
EXAMINER			JMENT	D 1000	COLDITO		CLASS	SUB-	TRAN	ISI ATION
INITIAL	ACI	0 674		DATE 09/27/95	COUNTR' Europe	<u>Y</u>	CLASS C12N	N 9/10 X		
RK	<u> </u>				<u> </u>		C07K	14/195	X	No Yes
PK	AD1	0 763		03/19/97	Europe				X	No Yes
RK	AEI	1 033	405	09/06/00	Europe		C12N	15/29	X	No Yes
RK	AEI	1 063	297	12/27/00	Europe		C12N	15/82		No Yes
RK	AGI	97/27	285	07/31/97	PCT		C12N	1/20	X	No
	1	!				Author, Title, Date, Pertinent Pages, et				
A II	AH	1	Bevan e	t al., Database	EMBL, Acc	ession No. AL035394 (02/09/99) (XP	002153686)			
RK					EVOL.	' N. 7245(((0(/25/04) (VD	021(0121)			
RK	AI	1	Desprez	et al., Databa	se EMBL, Ac	ccession No. Z34566 (06/25/94) (XP 0	102169121)			
16.60	AJ	1	Gaubier	et al., "A Chl	orophyll Synt	thetase Gene from Arabidopsis thalian	ıa," Mol. Gen. Gene	1., 249:58-64	(1995)	
RV		_								
	AK	1	Gaubier	et al., Databa	se EMBL Ac	cession No. Q38833 (11/01/96) (XP 0	02169117)			
RK										
ηV	AM	1	Kaneko	et al., Databa	se TREMBL,	Accession No. P73726 (02/01/97) (X	P 002169263)			
RK	AM	1	Kaneko	et al Databa	se TREMBL.	Accession No. P73727 (02/01/97) (X	P 002169264)			
RK		<u> </u>	, runono	or any Dunaba	,		,			
	AN	1	Kaneko	et al., Databa	se TREMBL,	Accession No. P73962 (07/15/98) (X	P 002169129)			
RK										
D.IV	AM	1	Kuntz e	t al., "Identifi	cation of a cD	NA for the Plastid-Located Geranylge azyme Activity and Transcript Level d	eranyl Pyrophosphat	e Synthase f	rom Caps Journal.	icum 2(1):25 - 34
RK			(1992)							
RK	AP	1	196 (19		on of a Maize	Endosperm-Specific cDNA Encoding	g ramesyi Pyropnosi	onate Synthe	tase, Gei	ie, 171.195-
1717	AQ	1	Lineta	J. Database F	MBI Access	sion No. AČ003672 (12/11/97) (XP 00	02153688)			-
RK	l'AQ	<u> </u>	Sincra	, 15 de do do 2	···, · · · · · · · · · · · · · · · ·	,,,	,			
	AR	1	Lin et a	d., Database B	MBL, Access	sion No. AC003673 (12/11/97) (XP 00	02153685)			
RK										
EXAMINER		>	00 12	ally			1	ONSIDEREI /) — ——	
	}	mue	un	acey			12/0	9/02		

Page 1 of 3

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

						16515.054 (52015/01/US)	09/688,06	9	ECY	یے
					_	APPLICANTS			C	SEP (
	F	FORM PT	O-1449	TATELL	JC150	Sai S. SUBRAMANIAM et al.			CENTER 160	EP 2 5 2001
<u>INFO</u>	RMATIO	N DISCL	OSUKE S	TATEMENT	-M 45:	FILING DATE	GROUP		- 弱	<u></u>
				27	加盟	October 14, 2000	1653	1638	5	2001
				de -		PATENT DOCUMENTS			- 2	-5
ANTEN		DOCU	MENT	PATENT &	TRADE	TATENT BOOKING.		SUB-	FILING	DATE
AMINER ITIAL		NUMB		DATE	NAME		CLASS	CLASS	FILITO	DATE
	AA2	ļ								
	AB2	<u> </u>		<u></u>	EODEIG	ON PATENT DOCUMENTS	-,***	<u></u>		
LL LONGED		DOCU	MENT		TOREIC	JATATERT BOCOMENTO		SUB-	T	
XAMINER IITIAL		NUME		DATE	COUNTR	Υ	CLASS	CLASS	X	SLATION Ye
RK	AC2	98/068	362	02/19/98	PCT		CI2N	15/82	X	No Ye
RK	AD2	99/046	522	02/04/99	PCT	_	A01H	5/00		No
	AE2	99/065	 580	02/11/99	PCT		C12N	15/82	X	Ye No
RK	AF2	99/078		02/19/98	PCT		C12N	15/82	X	Ye No
RK	AG2	00/016	650	01/13/00	PCT		C07C	45/41	X	Ye No
10	L			OTHE	R (Including	Author, Title, Date, Pertinent Pages,	, etc.)			
RK_	AH	2 2		at al "Coope	nce of the h	ision No. AC004077 (02/03/98) (XP) which Gene from Chloroflexus auran turnal of Bacterialogy, 178(11):3369-	ntiacus: Relationship	between Chlo	orophyll Sy	ynthase a
RK			Lopez e Other P Malakh	et al., "Seque olyprenyltrans ov et al., Data	nce of the b sferases," Journal of the state	ochG Gene from <i>Chloroflexus auran</i> aurnal of Bacteriology, 178(11):3369- BL, Accession No. Q55207 (11/01/96	ntiacus: Relationship -3373 (1996) 6) (XP 002169125)	between Chlo	orophyll Sy	ynthase ar
	AI	2	Lopez e Other P Malakh	et al., "Seque olyprenyltrans ov et al., Data	nce of the b sferases," Journal of the state	chG Gene from Chloroflexus auran urnal of Bacteriology, 178(11):3369-	ntiacus: Relationship -3373 (1996) 6) (XP 002169125)	between Chlo	orophyll Sy	ynthase a
RK	AI AJ AK	2 2	Lopez & Other P Malakh Murata	et al., "Seque: olyprenyltrans ov et al., Data et al., Databa	nce of the b sferases," Jon abase TREMI	chG Gene from Chloroflexus auran urnal of Bacteriology, 178(11):3369- BL, Accession No. Q55207 (11/01/96 ccession No. D13960 (03/28/96) (XP	ntiacus: Relationship -3373 (1996) 6) (XP 002169125) P 00 2169124)	between Chlo	orophyll Sy	ynthase an
RK PK RK	AI	2	Lopez e Other P Malakh Murata	et al., "Seque tolyprenyltran: nov et al., Data et al., Databa an et al., Datab	nce of the b sferases," Journal base TREMI se EMBL, A base EMBL,	chG Gene from Chloroflexus auran urnal of Bacteriology, 178(11):3369- BL, Accession No. Q55207 (11/01/96 ccession No. D13960 (03/28/96) (XF Accession No. T44803 (02/04/95) (X	ntiacus: Relationship -3373 (1996) 6) (XP 002169125) P 00 2169124) XP 002169120)	between Chlo	orophyll Sy	ynthase a
RK PK RK RK	AI AJ AK	2 2	Lopez e Other P Malakh Murata Newma	et al., "Seque tolyprenyltran: lov et al., Data et al., Databa an et al., Databa	nce of the b sferases," Journal base TREMI se EMBL, A base EMBL,	chG Gene from Chloroflexus auran urnal of Bacteriology, 178(11):3369- BL, Accession No. Q55207 (11/01/96) ccession No. D13960 (03/28/96) (XF Accession No. T44803 (02/04/95) (X Accession No. R30625 (08/11/95) (X	ntiacus: Relationship -3373 (1996) 6) (XP 002169125) P 00 2169124) XP 002169120) XP 002153690)			
RK PK RK	AI AJ AK AL AM	2 2 2 2 2	Lopez e Other P Malakh Murata Newma	et al., "Seque: folyprenyltrans fov et al., Data et al., Databa an et al., Datal an et al., Datal	nce of the b sferases," Jou sbase TREMI se EMBL, A base EMBL, base EMBL,	cchG Gene from Chloroflexus auran urnal of Bacteriology, 178(11):3369- BL, Accession No. Q55207 (11/01/96) ccession No. D13960 (03/28/96) (XF Accession No. T44803 (02/04/95) (XF Accession No. R30625 (08/11/95) (XF of Carotenoid Synthesis in Arabidop	ntiacus: Relationship -3373 (1996) 6) (XP 002169125) P 00 2169124) XP 002169120) XP 002153690)			
RK PK RK RK AK	AI AJ AK AL	2 2 2 2	Lopez e Other P Malakh Murata Newma	et al., "Seque: folyprenyltrans fov et al., Data et al., Databa an et al., Datal an et al., Datal et al., "Geneti the Desaturation	se EMBL, A base EMBL, base EMBL, c Dissection on," The Plan	cchG Gene from Chloroflexus auran urnal of Bacteriology, 178(11):3369-BL, Accession No. Q55207 (11/01/96) (Ccession No. D13960 (03/28/96) (XFACCESSION NO. T44803 (02/04/95) (XFACCESSION NO. R30625 (08/11/95) (XFACCESSION NO. R	ntiacus: Relationship -3373 (1996) 6) (XP 002169125) P 00 2169124) XP 002169120) XP 002153690)	none as an Es	sential Cor	mponent o
RK PK RK AK RK	AI AJ AK AL AM	2 2 2 2 2	Lopez e Other P Malakh Murata Newma Newma Norris Phytoe	et al., "Seque: folyprenyltran: fov et al., Databa et al., Databa an et al., Databa et al., "Geneti et al., "Geneti et al., "The G4	se EMBL, A base EMBL, base EMBL, c Dissection on," The Plan	cchG Gene from Chloroflexus auran urnal of Bacteriology, 178(11):3369- BL, Accession No. Q55207 (11/01/96) ccession No. D13960 (03/28/96) (XF Accession No. T44803 (02/04/95) (XF Accession No. R30625 (08/11/95) (XF of Carotenoid Synthesis in Arabidop	ntiacus: Relationship -3373 (1996) 6) (XP 002169125) P 00 2169124) XP 002169120) XP 002153690)	none as an Es	sential Cor	mponent o
RK PK RK AK RK	AI AJ AK AL AM AN AO	2 2 2 2 2 2	Newma Norris Phytoe Other P	et al., "Sequential of the sequential of the seq	nce of the b sferases," Jon base TREMI se EMBL, A base EMBL, c Dissection on," The Plan Gene of Arca	chG Gene from Chloroflexus auran urnal of Bacteriology, 178(11):3369-BL, Accession No. Q55207 (11/01/96) (Coession No. D13960 (03/28/96) (XFAccession No. T44803 (02/04/95) (XFACCESSION NO. R30625 (08/11/95) (XFACCESSION NO. R3	ntiacus: Relationship -3373 (1996) 6) (XP 002169125) P 00 2169124) XP 002169120) XP 002153690) psis Defines Plastoquii	none as an Es	sential Cor	nponent c
RK PK RK AK RK	AI AJ AK AL AM	2 2 2 2 2 2	Newma Norris Phytoe Oster e	et al., "Seque tolyprenyltrans fov et al., Databa et al., Databa an et al., Databa et al., "Geneti et al., "Geneti et al., "The G4 997)	nce of the b sferases," Jon base TREMI se EMBL, A base EMBL, c Dissection on," The Plan Gene of Ara e Biosis, Acc	achG Gene from Chloroflexus auran urnal of Bacteriology, 178(11):3369-BL, Accession No. Q55207 (11/01/96) (Coession No. D13960 (03/28/96) (XFAccession No. T44803 (02/04/95) (XFACCESSION No. R30625 (08/11/95) (XFACCESSION NO. R	ntiacus: Relationship3373 (1996) 6) (XP 002169125) P 00 2169124) XP 002169120) XP 002153690) osis Defines Plastoquii phyll Synthase of Etio	none as an Es	sential Cor	nponent c
RK PK RK RK RK RK	AI AJ AK AL AM AN AO	2 2 2 2 2 2	Newma Norris Phytoe Oster e	et al., "Seque tolyprenyltrans fov et al., Databa et al., Databa an et al., Databa et al., "Geneti et al., "Geneti et al., "The G4 997)	nce of the b sferases," Jon base TREMI se EMBL, A base EMBL, c Dissection on," The Plan Gene of Ara e Biosis, Acc	chG Gene from Chloroflexus auran urnal of Bacteriology, 178(11):3369-BL, Accession No. Q55207 (11/01/96) (Coession No. D13960 (03/28/96) (XFAccession No. T44803 (02/04/95) (XFACCESSION NO. R30625 (08/11/95) (XFACCESSION NO. R3	ntiacus: Relationship3373 (1996) 6) (XP 002169125) P 00 2169124) XP 002169120) XP 002153690) osis Defines Plastoquii phyll Synthase of Etio	none as an Es	sential Cor	nponent c
RK PK RK AK RK	AI AJ AK AL AM AN AO AP	2 2 2 2 2 2 2 2 2 2	Newma Norris Phytoe Oster e 423 (19) Rouns	et al., "Seque: folyprenyltrans fov et al., Databa et al., Databa an et al., Databa an et al., Databa et al., "Geneti ene Desaturation et al., "The G4 997) et al., Database dey et al., Database dey et al., Database	nce of the b sferases," Joi se EMBL, A base EMBL, c Dissection on," The Plan Gene of Ara e Biosis, Acc	cchG Gene from Chloroflexus auran urnal of Bacteriology, 178(11):3369-BL, Accession No. Q55207 (11/01/96) (Ccession No. D13960 (03/28/96) (XFACCESSION NO. T44803 (02/04/95) (XFACCESSION NO. R30625 (08/11/95) (XFACCESSION NO. R30625 (08/11/95) (XFACCESSION NO. R30625 (08/11/95) (XFACCESSION NO. R30625 (08/11/95) (XFACCESSION NO. PREV199800047824 (10/13/97) (ACCESSION NO. B24116 (10/13/97) (10/1	ntiacus: Relationship -3373 (1996) 6) (XP 002169125) P 00 2169124) XP 002169120) XP 002153690) psis Defines Plastoquii phyll Synthase of Etio 0/1997) (XP 00215369) (XP 002153687)	none as an Es	sential Cor	nponent c
RK PK RK RK RK RK	AI AJ AK AL AM AN AO AP	2 2 2 2 2 2 2 2	Newma Norris Phytoe Oster e 423 (19) Rouns	et al., "Sequento lyprenyltrans in et al., Databa an et al., Databa an et al., Databa an et al., "Genetione Desaturatione Desaturatione al., "The Garal, "The Gara	nce of the b sferases," Jon se EMBL, A base EMBL, c Dissection on," The Plan Gene of Arca e Biosis, Acc abase EMBL	cchG Gene from Chloroflexus auran urnal of Bacteriology, 178(11):3369-BL, Accession No. Q55207 (11/01/96) (Cession No. D13960 (03/28/96) (XFACCESSION NO. T44803 (02/04/95) (XFACCESSION NO. R30625 (08/11/95) (XFACCESSION NO. R30625 (08/11/95) (XFACCESSION NO. R30625 (08/11/95) (XFACCESSION NO. PREV199800047824 (10/13/97) (Cession No. PREV199800047824 (10/13/97) (Cession No. B24116 (10/13/97) (Cession No. B24116 (10/13/97) (Cession No. B29398 (10/13/97) (Cession	ntiacus: Relationship -3373 (1996) 6) (XP 002169125) P 00 2169124) XP 002169120) XP 002153690) psis Defines Plastoquii phyll Synthase of Etio (XP 002153687) (XP 002153689)	none as an Es	sential Cor	nponent c
RK PK RK RK RK RK RK	AI AJ AK AL AM AN AO AP	2 2 2 2 2 2 2 2 2 2	Newma Norris Phytoe Oster e 423 (19 Rouns Rouns	et al., "Seque olyprenyltrans lov et al., Databa an et al., Databa an et al., Databa an et al., The Gapara of al., "Geneticane Desaturation et al., "The Gapara of al., "The Gapara olypren et al., Databas olypren et al., Da	nce of the b sferases," Jon base TREMI se EMBL, A base EMBL, c Dissection on," The Plan Gene of Ara e Biosis, Acc abase EMBL abase EMBL	cchG Gene from Chloroflexus auran urnal of Bacteriology, 178(11):3369-BL, Accession No. Q55207 (11/01/96) (11/	ntiacus: Relationship3373 (1996) 6) (XP 002169125) P 00 2169124) XP 002169120) XP 002153690) Desis Defines Plastoquii phyll Synthase of Etio (XP 002153687) (XP 002153689) (XP 002153689)	none as an Es	sential Cor	nponent c
RK PK RK RK RK RK	AI AJ AK AL AM AN AO AP AQ AR	2 2 2 2 2 2 2 2 2 2	Newma Norris Phytoe Oster e 423 (19 Rouns Rouns	et al., "Seque olyprenyltrans lov et al., Databa an et al., Databa an et al., Databa an et al., The Gapara of al., "Geneticane Desaturation et al., "The Gapara of al., "The Gapara olypren et al., Databas olypren et al., Da	nce of the b sferases," Jon base TREMI se EMBL, A base EMBL, c Dissection on," The Plan Gene of Ara e Biosis, Acc abase EMBL abase EMBL	cchG Gene from Chloroflexus auran urnal of Bacteriology, 178(11):3369-BL, Accession No. Q55207 (11/01/96) (Cession No. D13960 (03/28/96) (XFACCESSION NO. T44803 (02/04/95) (XFACCESSION NO. R30625 (08/11/95) (XFACCESSION NO. R30625 (08/11/95) (XFACCESSION NO. R30625 (08/11/95) (XFACCESSION NO. PREV199800047824 (10/13/97) (Cession No. PREV199800047824 (10/13/97) (Cession No. B24116 (10/13/97) (Cession No. B24116 (10/13/97) (Cession No. B29398 (10/13/97) (Cession	ntiacus: Relationship3373 (1996) 6) (XP 002169125) P 00 2169124) XP 002169120) XP 002153690) Desis Defines Plastoquii phyll Synthase of Etio (XP 002153687) (XP 002153689) (XP 002153689)	none as an Es	sential Cor	mponent o

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

APPLICATION NO. ATTY. DOCKET NO. 09/688,069 16515.054 (52015/01/US) APPLICANTS FORM PTO-1449
INFORMATION DISCLOSURE STATEMENT Sai S. SUBRAMANIAM et al. GROUP FILING DATE October 14, 2000 U.S. PATENT DOCUMENTS FILING DATE SUB-DOCUMENT **EXAMINER CLASS CLASS** NAME DATE NUMBER INITIAL AA3 AB3 FOREIGN PATENT DOCUMENTS SUB-DOCUMENT TRANSLATION **EXAMINER CLASS** CLASS COUNTRY NUMBER DATE INITIAL Yes C12N 9/10 PCT No 03/16/00 AC3 00/14207 RK X Yes C12N 15/82 No **PCT** 04/20/00 AD3 00/22150 Yes X 15/82 C12N No 10/19/00 **PCT** 00/61771 AE3 Yes X 15/54 C12N RK 11/16/00 **PCT** No 00/68393 AF3 Yes X C07K 14/00 03/29/01 **PCT** No 01/21650 AG3 OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Shoemaker, Database EMBL, Accession No. A1748688 (06/29/99) (XP 002169135) AH 3 RK Shoemaker et al., Database EMBL, Accession No. Al938569 (08/03/99) (XP 002169133) 3 ΑI RK Shoemaker et al. Database EMBL, Accession No. AI988542 (09/07/99) (XP 00 2169132) ĀJ 3 RK Shoemaker et al., Database EMBL, Accession No. AW306617 (01/21/00) (XP 00 2169134) AK 3 RK Tabata et al., Database EMBL, Accession No. D64001 (09/30/95) (XP 002169126) AL 3 RK Tabata et al., Database EMBL, Accession No. D64006 (09/30/95) (XP 002169122) AM 3 RK Tabata, Database EMBL, Accession No. D90909 (10/31/96) (XP 002169130) ΑN 3 RK Tabata, Database EMBL, Accession No. D90911 (10/31/96) (XP 002169128) ÃO 3 RK Tabata, Database TREMBL, Accession No. Q55145 (11/01/96) (XP 002169127) ΑP 3 RK Tabata, Database TREMBL, Accession No. Q55500 (11/01/96) (XP 002169123) AQ 3 RK Walbot et al., Database EMBL, Accession No. A1795655 (07/07/99) (XP 002169131) AR 3 RK Zhu et al., "Geranylgeranyl Pyrophosphate Synthase Encoded by the Newly Isolated Gene GGPS6 from Arabidopsis thaliana is AS Localized in Mitochondria," Plant Molecular Biology, 35:331-341 (1997) RK AT 3 DATE CONSIDERED **EXAMINER**

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

16515.054 09/688,069 17 8 1 10 2002 16515.054 1651							ATTY. DO	CKET NO.		APPLICA	ATION NO.	H10
INFORMATION DISCUSSIVE STATEMENT JUL 1 0 7002 B POREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS EXAMINER RV AAI 0531639A2 03/1993 EPO RV ABI 560,529 04/1944 Great Britain RV CENTRA 1002 Yes No OTHER (Including Author, Title, Date, Perlinent Pages, etc.) OTHER (Including Author, Title, Date, Perlinent Pages, etc.) RV AB 1 Bevan et al., TREMBL Database Accession No. 065524 RV AF 1 Kancko et al., EMBL Sequence Database Accession No. A1995392 RV AG 1 Chen et al., EMBL Sequence Database Accession No. A1995392 RV AI 1 Stocker et al., "Identification of the Tocopherol-Cyclase in the Blue-Green Algae Anabaena variabilis KDTZINO (Cyanobacteria)" 76:1729-1738 (1993) RV AI 1 Arango et al., "Tocopherol synthesis from homogenisate in Capsicum annum L. (yellow pepper) chromoplast membranes: evidence for tocopherol cyclase", Biochem J. 336:531-533 (1998) Stocker et al., "The Substrate Specificity of Tocopherol Cyclase", Bioorganic & Medicinal Chemistry							16515.054	ļ.		09/688,	069	#/8
INFORMATION DISCUSSION ESTATEMENT JUL 1 0 2002 STOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS CLASS CLASS TRANSLATION CLASS CLASS TRANSLATION PLANSLATION R.K. AA1 0531639A2 03/1993 EPO JUL 10 2002 R.K. AB1 560,529 04/1944 Great Britain OTHER (Including Author, Title, Date, Pertinent Pages, etc.) OTHER (Including Author, Title, Date, Pertinent Pages, etc.) OTHER (Including Author, Title, Date, Pertinent Pages, etc.) R.K. AB 1 Bevan et al., TREMBL Database Accession No. O65524 R.K. AF 1 Kancko et al., EMBL Sequence Database Accession No. D90909 R.K. AG 1 Chen et al., EMBL Sequence Database Accession No. A1995392 R.K. AH 1 Stocker et al., "Identification of the Tocopherol-Cyclase in the Blue-Green Algae Anabaena variabilis KOTZING (Cyanabacteria)" 76:1729-1738 (1993) R.K. AI 1 Arango et al., "Tocopherol synthesis from homogentisate in Capsicum anaum L. (yellow pepper) chromoplast membranes: evidence for tocopherol cyclase", Bioorganic & Medicinal Chemistry Stocker et al., "The Substrate Specificity of Tocopherol Cyclase", Bioorganic & Medicinal Chemistry			CODA D	TO 1440			APPLICAN	TS				
FILING DATE October 14, 2000 FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS CLASS TRANSLATION Yes No RK AA1 0531639A2 03/1993 EPO WILL VED RK AB1 560,529 04/1944 Great Britain OTHER (Including Author, Title, Date, Pertinent Pages, etc.) OTHER (Including Author, Title, Date, Pertinent Pages, etc.) OTHER (Including Author, Title, Date, Pertinent Pages, etc.) RK AB 1 Bevan et al., TREMBL Database Accession No. O65524 RK AF 1 Kancko et al., EMBL Sequence Database Accession No. D90909 RK AG 1 Chen et al., EMBL Sequence Database Accession No. A1995392 RK AI 1 Stocker et al., "Identification of the Tocopherol-Cyclase in the Blue-Green Algae Anabaena variabilis KOTZING (Cyanobacteria)" 76:1729-1738 (1993) RK AI 1 Arango et al., "Tocopherol synthesis from homogentisate in Capsicum annum L. (yellow pepper) chromoplast membranes: evidence for tocopherol cyclase", Bioorganic & Medicinal Chemistry Stocker et al., "The Substrate Specificity of Tocopherol Cyclase", Bioorganic & Medicinal Chemistry	INFO	RMATIE	N DISCH	OSURES	STATEMENT		LASSNEF	R et al.				
FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS CLASS CLASS TRANSLATION Yes No PC		70		3			FILING DA	TE		GROUP		
FOREIGN PATENT DOCUMENTS EXAMINER INITIAL RV AA1 0531639A2 03/1993 EPO RV AB1 560,529 04/1944 Great Britain RV AC1 00/63391 10/2000 PCT OTHER (Including Author, Title, Date, Pertinent Pages, etc.) OTHER (Including Author, Title, Date, Pertinent Pages, etc.) RV AE 1 Bevan et al., TREMBL Database Accession No. O65524 RV AF 1 Kaneko et al., EMBL Sequence Database Accession No. D90909 RV AG 1 Chen et al., EMBL Sequence Database Accession No. A1995392 RV AT 1 Stocker et al., "Identification of the Tocopherol-Cyclase in the Blue-Green Algae Anabaena variabilis KOTZING (Cyanobacteria)" 76:1729-1738 (1993) RV AT 1 Arango et al., "Tocopherol synthesis from homogentisate in Capsicum anuum L. (yellow pepper) chromoplast membranes: evidence for tocopherol Cyclase", Biochem J. 336:531-533 (1998)		HII 1	0 2002	<u> </u>			October 1	4, 2000		1638		
EXAMINER INITIAL READ DATE COUNTRY CLASS CLASS TRANSLATION READ DATE COUNTRY CLASS CLASS TRANSLATION READ DATE COUNTRY CLASS CLASS TRANSLATION READ DATE COUNTRY READ DATE CLASS CLASS TRANSLATION READ DATE CLASS CLASS TRANSLATION READ DATE READ DATE READ PER CLASS CLASS TRANSLATION READ DATE CL						FOREIC		OCUMENTO		· · · · · · · · · · · · · · · · · · ·		
R K AA1 0531639A2 03/1993 EPO R K AB1 560,529 04/1944 Great Britain R K AC1 00/63391 10/2000 PCT OTHER (Including Author, Title, Date, Pertinent Pages, etc.) OTHER (Including Author, Title, Date, Pertinent Pages, etc.) R K AE 1 Bevan et al., TREMBL Database Accession No. O65524 R K AF 1 Kaneko et al., EMBL Sequence Database Accession No. D90909 R K AG 1 Chen et al., EMBL Sequence Database Accession No. AI995392 R K AH 1 Stocker et al., "Identification of the Tocopherol-Cyclase in the Blue-Green Algae Anabaena variabilis KOTIZING (Cyanobacteria)" 76:1729-1738 (1993) R K AI 1 Arango et al., "Tocopherol synthesis from homogentisate in Capsicum annum L. (yellow pepper) chromoplast membranes: evidence for tocopherol cyclase", Biochem J. 336:531-533 (1998) Stocker et al., "The Substrate Specificity of Tocopherol Cyclase", Bioorganic & Medicinal Chemistry		Z.		Y	,	FOREIC	MINICALL	D			SUB.	T
R K AAI 0531639A2 03/1993 EPO R K ABI 560,529 04/1944 Great Britain R K ACI 00/63391 10/2000 PCT OTHER (Including Author, Title, Date, Pertinent Pages, etc.) OTHER (Including Author, Title, Date, Pertinent Pages, etc.) R K AE 1 Bevan et al., TREMBL Database Accession No. O65524 R K AF 1 Kaneko et al., EMBL Sequence Database Accession No. D90909 R K AG 1 Chen et al., EMBL Sequence Database Accession No. AI995392 R K AH 1 Stocker et al., "Identification of the Tocopherol-Cyclase in the Blue-Green Algae Anabaena variabilis KOTZING (Cyanobacteria)" 76:1729-1738 (1993) R K AI 1 Arango et al., "Tocopherol synthesis from homogentisate in Capsicum annum L. (yellow pepper) chromoplast membranes: evidence for tocopherol cyclase", Biochem J. 336:531-533 (1998) Stocker et al., "The Substrate Specificity of Tocopherol Cyclase", Bioorganic & Medicinal Chemistry	EXAMINER INITIAL	8 11	NUMI	IMENT BER	DATE	COUNTR	Y	17/	Cr.	CLASS		TRANSLATION
RK ACI 00/63391 10/2000 PCT OTHER (Including Author, Title, Date, Pertinent Pages, etc.) RK AD 1 International Search Report, PCT/US01/12334 (April 2007) o K RK AE 1 Bevan et al., TREMBL Database Accession No. O65524 RK AF 1 Kaneko et al., EMBL Sequence Database Accession No. D90909 RK AG 1 Chen et al., EMBL Sequence Database Accession No. A1995392 RK AH 1 Stocker et al., "Identification of the Tocopherol-Cyclase in the Blue-Green Algae Anabaena variabilis KOTZING (Cyanobacteria)" 76:1729-1738 (1993) RK AI 1 Arango et al., "Tocopherol synthesis from homogentisate in Capsicum anuum L. (yellow pepper) chromoplast membranes: evidence for tocopherol cyclase", Biochem J. 336:531-533 (1998)		1	1		03/1993	ЕРО	7:	JUL	LIVE) —		
AD 1 International Search Report, PCT/USO1/12334 (April 2007) RK AE 1 Bevan et al., TREMBL Database Accession No. 065524 RK AF 1 Kaneko et al., EMBL Sequence Database Accession No. D90909 RK AG 1 Chen et al., EMBL Sequence Database Accession No. A1995392 RK AH 1 Stocker et al., "Identification of the Tocopherol-Cyclase in the Blue-Green Algae Anabaena variabilis Kūtzing (Cyanobacteria)" 76:1729-1738 (1993) RK AI 1 Arango et al., "Tocopherol synthesis from homogentisate in Capsicum anuum L. (yellow pepper) chromoplast membranes: evidence for tocopherol cyclase", Biochem J. 336:531-533 (1998) Stocker et al., "The Substrate Specificity of Tocopherol Cyclase", Bioorganic & Medicinal Chemistry		AB1	560,5	529	04/1944	Great Br	ritain	CH CENTE	2002	_		
AD 1 International Search Report, PCT/USO1/12334 (April 2007) RK AE 1 Bevan et al., TREMBL Database Accession No. 065524 RK AF 1 Kaneko et al., EMBL Sequence Database Accession No. D90909 RK AG 1 Chen et al., EMBL Sequence Database Accession No. A1995392 RK AH 1 Stocker et al., "Identification of the Tocopherol-Cyclase in the Blue-Green Algae Anabaena variabilis Kūtzing (Cyanobacteria)" 76:1729-1738 (1993) RK AI 1 Arango et al., "Tocopherol synthesis from homogentisate in Capsicum anuum L. (yellow pepper) chromoplast membranes: evidence for tocopherol cyclase", Biochem J. 336:531-533 (1998) Stocker et al., "The Substrate Specificity of Tocopherol Cyclase", Bioorganic & Medicinal Chemistry	RK	ACI	00/63	3391	10/2000	PCT			000/2900		-	
RK AF 1 Bevan et al., TREMBL Database Accession No. O65524 RK AF 1 Kaneko et al., EMBL Sequence Database Accession No. D90909 RK AG 1 Chen et al., EMBL Sequence Database Accession No. AI995392 RK AH 1 Stocker et al., "Identification of the Tocopherol-Cyclase in the Blue-Green Algae Anabaena variabilis KÜTZING (Cyanobacteria)" 76:1729-1738 (1993) RK AI 1 Arango et al., "Tocopherol synthesis from homogentisate in Capsicum anuum L. (yellow pepper) chromoplast membranes: evidence for tocopherol cyclase", Biochem J. 336:531-533 (1998) Stocker et al., "The Substrate Specificity of Tocopherol Cyclase", Bioorganic & Medicinal Chemistry					ОТНЕР	R (Including	Author, Title,	Date, Pertinen	it Pages, etc.)			
RK AF 1 Kaneko et al., EMBL Sequence Database Accession No. D90909 Chen et al., EMBL Sequence Database Accession No. AI995392 Chen et al., "Identification of the Tocopherol-Cyclase in the Blue-Green Algae Anabaena variabilis Kūtzing (Cyanobacteria)" 76:1729-1738 (1993) Arango et al., "Tocopherol synthesis from homogentisate in Capsicum anuum L. (yellow pepper) chromoplast membranes: evidence for tocopherol cyclase", Biochem J. 336:531-533 (1998) Stocker et al., "The Substrate Specificity of Tocopherol Cyclase", Bioorganic & Medicinal Chemistry	PK	AD	1	Interna	tional Searc	h Report, I	PCT/US01/1	2334 (April	2002) 2002 o K			
RK AG 1 Chen et al., EMBL Sequence Database Accession No. AI995392 Stocker et al., "Identification of the Tocopherol-Cyclase in the Blue-Green Algae Anabaena variabilis KÜTZING (Cyanobacteria)" 76:1729-1738 (1993) Arango et al., "Tocopherol synthesis from homogentisate in Capsicum anuum L. (yellow pepper) chromoplast membranes: evidence for tocopherol cyclase", Biochem J. 336:531-533 (1998) Stocker et al., "The Substrate Specificity of Tocopherol Cyclase", Bioorganic & Medicinal Chemistry	RK	AE	1	Bevan	et al., TREN	ИBL Datab	oase Accessio	on No. O655	524			
AH 1 Stocker et al., "Identification of the Tocopherol-Cyclase in the Blue-Green Algae Anabaena variabilis KÜTZING (Cyanobacteria)" 76:1729-1738 (1993) Arango et al., "Tocopherol synthesis from homogentisate in Capsicum anuum L. (yellow pepper) chromoplast membranes: evidence for tocopherol cyclase", Biochem J. 336:531-533 (1998) Stocker et al., "The Substrate Specificity of Tocopherol Cyclase", Bioorganic & Medicinal Chemistry	RK	AF	1	Kanek	o et al., EMI	BL Sequen	ce Database	Accession N	vo. D90909			
KÜTZING (Cyanobacteria)" 76:1729-1738 (1993) Arango et al., "Tocopherol synthesis from homogentisate in Capsicum anuum L. (yellow pepper) chromoplast membranes: evidence for tocopherol cyclase", Biochem J. 336:531-533 (1998) Stocker et al., "The Substrate Specificity of Tocopherol Cyclase", Bioorganic & Medicinal Chemistry	RK	AG	1	Chen e	et al., EMBL	. Sequence	Database A	ccession No	. AI995392			
chromoplast membranes: evidence for tocopherol cyclase", Biochem J. 336:531-533 (1998) Stocker et al., "The Substrate Specificity of Tocopherol Cyclase", Bioorganic & Medicinal Chemistry	RK	АН	1	Stocke Kützii	er et al., "Ide NG (Cyanob	ntification acteria)" 7	of the Toco 6:1729-1738	pherol-Cycla 3 (1993)	ase in the Blue-	Green Alg	ae Anabaen	aa variabilis
Stocker et al., "The Substrate Specificity of Tocopherol Cyclase", Bioorganic & Medicinal Chemistry	RK	AI	1	Arange	o <i>et al.</i> , "Too oplast memb	copherol sy oranes: evi	ynthesis fron dence for too	n homogenti copherol cyc	sate in Capsiculase", Biochem	ım anuum J. 336:53	L. (yellow p 1-533 (1998	oepper) 3)
4(7):1129-1134 (1990)	RIG	AJ	1	Stocke 4(7):1	er <i>et al.</i> , "Th 129-1134 (1	e Substrate 996)	e Specificity	of Tocopher	rol Cyclase", B			
EXAMINER O	EXAMINER			1	.,							
Romell Kallin 12/02/02			m	ell	Kally	/						
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	EXAMINER: considered. Inc	Initial if	eference y of this f	considere	d, whether or next communi	not citation i cation to Ap	is in conforma plicant.	nce with MPE	P 609. Draw line	through cit	ation if not in	conformance and not

• .

RECEIVED

MAY 2 3 2001

#//

PATENT

DOCKET NO. MOCO.008.00US TECH CENTER 1600/2900

OMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE SATEMENT

(Use several sheets if necessary)
Sheet _1_ of _1

In re the application of: Subramaniam, et al.

Serial No. 09/688,069

I Examiner: Not Yet Assigned Kalls

Filed: October 14, 2000

Ref. Desig. A1	Examiner's Initials RK	Document <u>Number</u> 5,693,507	<u>Date</u> 12/2/97	<u>Name</u> Daniell <i>et al</i> .	Class/ <u>Subclass</u>	<u>Filing</u> <u>Date</u> 7/20/94
----------------	------------------------	--	------------------------	---------------------------------------	---------------------------	---

FOREIGN PATENT DOCUMENTS							
Ref. Desig.	Examiner's <u>Initials</u>	Document Number	<u>Date</u>	Country	Class/ Subclass	Filing Date	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Ref. <u>Desig.</u>	Examiner's <u>Initials</u>	
C1		Spurgeon et al., Biosynthesis of Isoprenoid Compounds, (1981), Vol. 1, pp. 1-46.
C2		Fiedler et al., 1982, Planta, 155:511-515.
C3		Soll et al., 1980, Arch. Biochem. Biophys. 204: 544-550.
C4		Marshall et al., 1985, Phytochem, 24: 1705-1711.
C5		Svab et al., (1990) Proc. Natl. Acad. Sci. USA 87:8526-8530.
C6		Svab et al., (1993) Proc. Natl. Acad. Sci. USA 90:913-917.

Examiner: Ruvell Kally

Date Considered: 12/9/02

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.